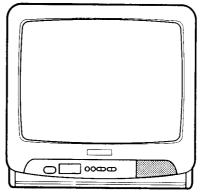


GoldStar COLOUR TV SERVICE MANUAL

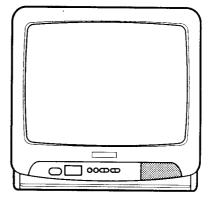
CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.





MODEL: CB-20A80



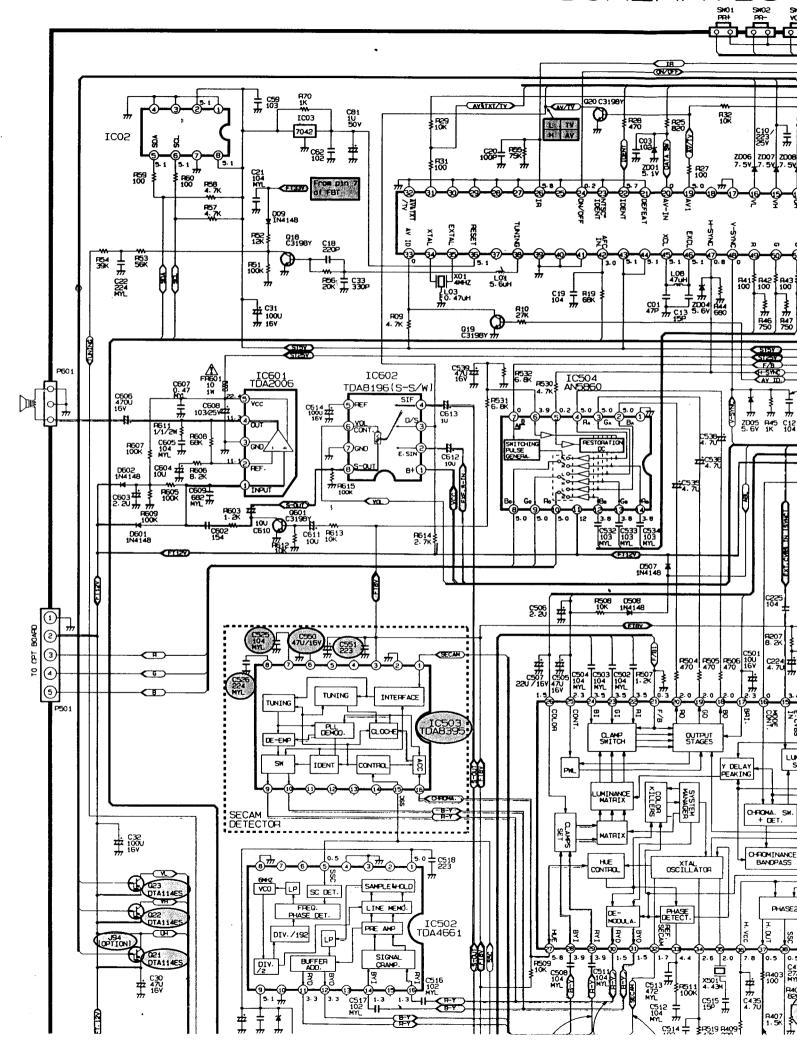
CHASSIS: PC-31A

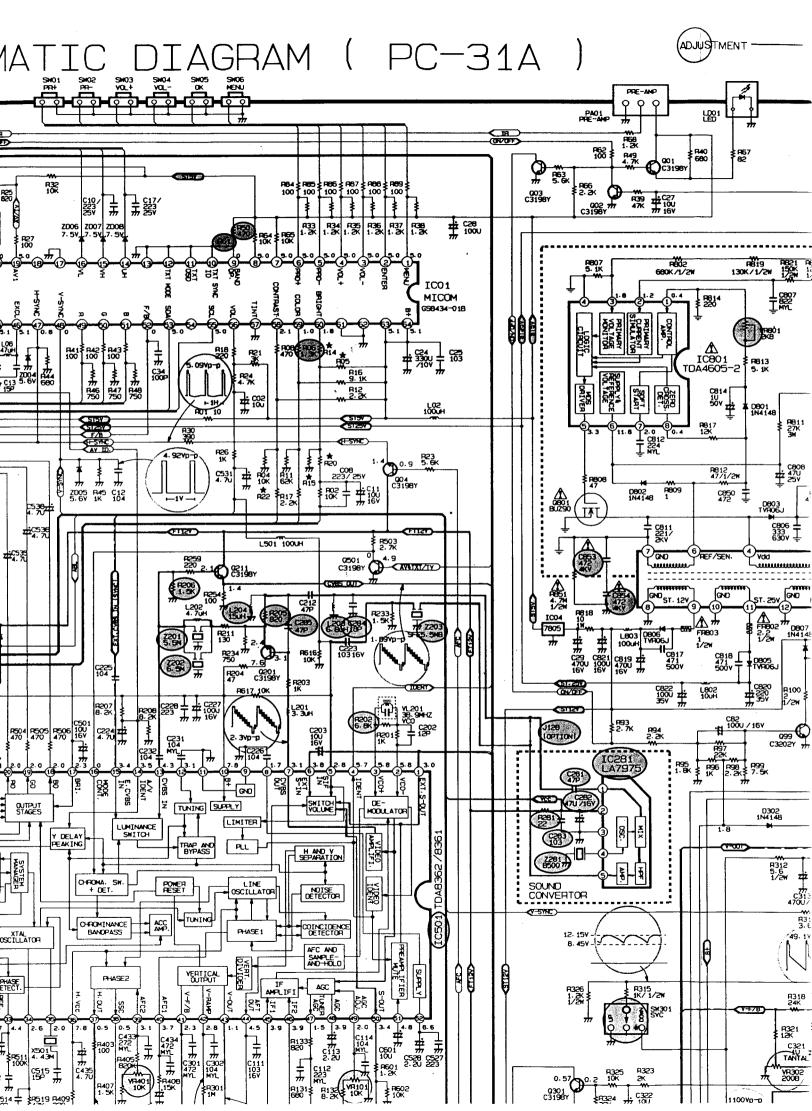
MODEL: CB-14A80

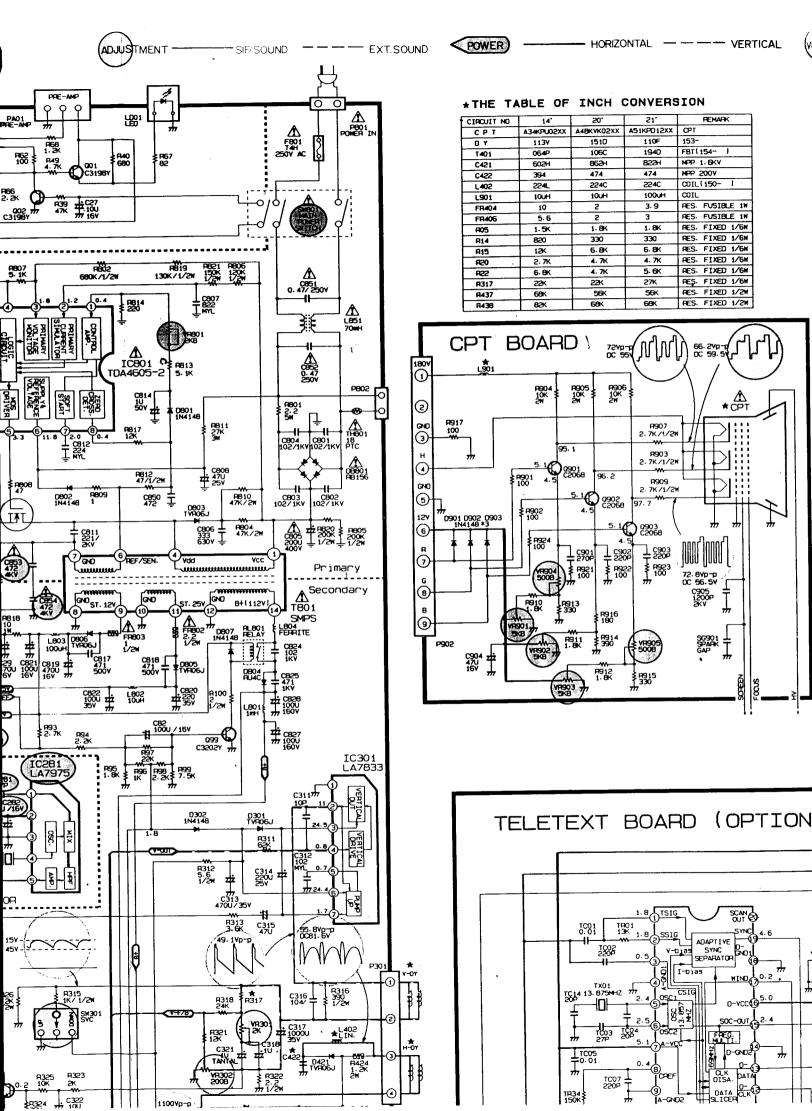
CB-20A80



SCHEMATIC



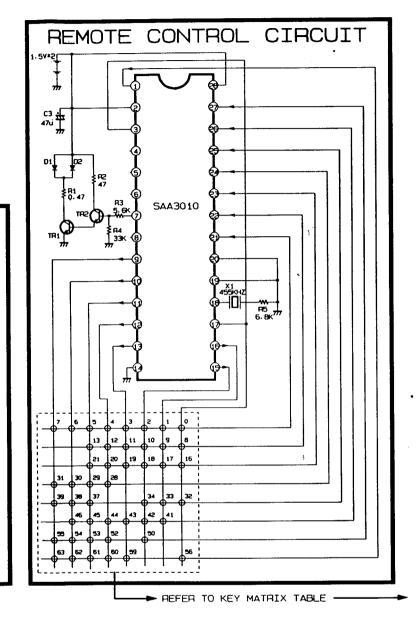




TICAL WAVE IN THE CHINARA

P/N:484-856B-S

DATE: JUN. 1, 1994



TION) TIC01 CF70200 5.0 TEST E/000 (9 TC10 47 167 # REF (0. 01 MYL TIC05 5.0 KIA7042 1032 40- voi KIA7042 1050 V 777 TCOB 0. 01 ACR SET (A-GNOÉ PED(€) TR24 100 ⊙о-с**№**о ® cwo 5.0 9 vcc 100 TH26

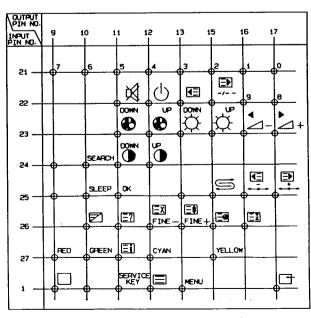
THE TABLE OF RECEIVING SYSTEM

	в∕н .	B/G	0 / K	1	REMARKS
California de la calenda de la	1.5K	1-3K	1-8K	1-5K	010001 5711
	_	-	22	-	CARBON FILM RESISTOR
- 100 April 100	-	-	1.5K	_	
	6.8K	6.8K	10K	6.8K	
V.	6. BUH	6.8UH	10UH	6.8UH	INDUCTOR
	33UH	15UH	S: S/TH	8. 2UH	INDUCTOR
(22)	TIN WIRE	TIN WIRE	47pF	TIN WIRE	CAP. TUBULAR
7	_	_	47u/16V	_	CAP. CE
	_	-	103p	-	CAP. TUBULAR
	_	-	18P	-	CAP. TUBULAR
26.20	-	-	47P	-	CAP. TUBULAR
A. C.	-	-	104J 50V	-	C40 40 40
140 H	-	-	224J 50Y	-	CAP. MYLAR
er er er	-	-	47U/16Y	-	CAP. CE
tablespania g Wax or 1	_	-	0.022u/50v	-	CAP. CERANIC
2 -	474 250V	474 250V	154 250V	-	X-CAPACITOR
	TIN WIRE	4700/4KV	4700/4KV	TIN WIRE	Y-CAPACITOR
Land C	2200/2KV	4700/4KV	4700/4KV	2200p/4KV	T-CAPACTION
Discharge Control	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
25.5	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
entropies of the second	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
ileza de la	-		LA7975		S-CONVERTOR
10:00	TDA8361	TOA8361	TDA8362	TOA8361	JUNGLE
Texts an	-	-	TDA8395/N1	-	SECAM
Z101	G1966M	G1966M	K1950	J1953M	SAW FILTER
Z201	TP55.5M	TP55-5M	TPS5-5M	TP56-0N	FILTER TRAP
Z202 (8)	TP96 5M	TP96-5M	TP96-5M	TP6.5M	
Z203	5.54	5. 5M	6-OH	6. OM	FILTER 8PF
Z281	_	-	CS8500	-	RESONATOR
10 miles		2388	2380	238E	TUNER
TIBLE	2366	23 8 C	23 8 F	-	TUNER
1.5					(HYPER BAND)
J94		-		TIN WIRE	
U128##	TIN WIRE	TIN WIRE	-	TIN WIRE	
	, 2, , , , , , , , , , , , , , , , , ,			1	
R50	-	-	-	470	
Control of the Control	TIN WIRE	TIN WIRE	TIN WIFE	470	
P50 8	_	TIN WIFE 820		470 - 820	

● TEXT LANGUAGE & MODE OPTION FOR U-COM IC(ICO1)

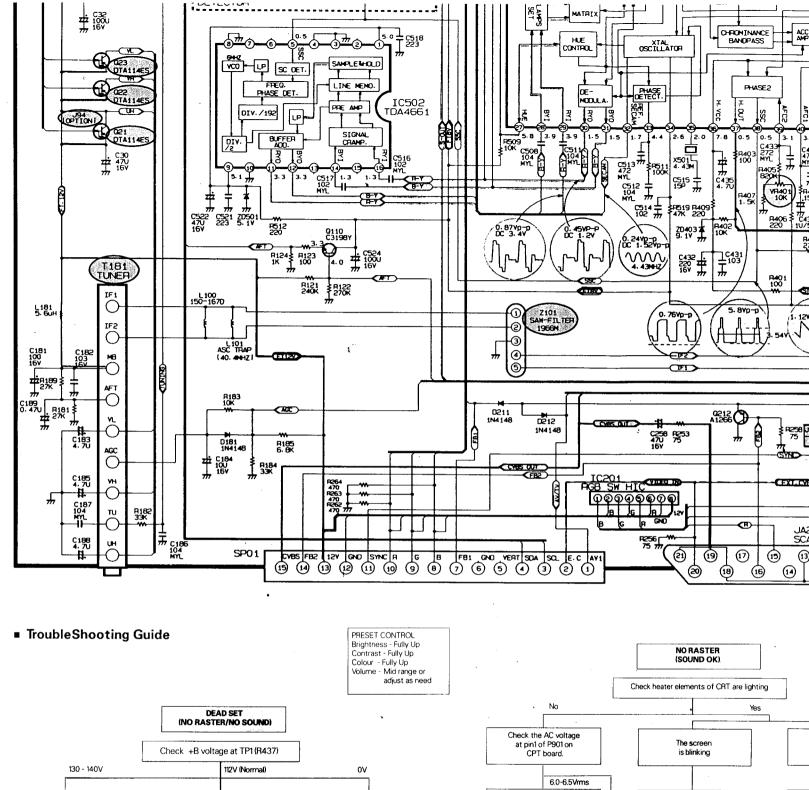
FUNCTION	LANGUAGE		MODE		REMARKS
PIN NO.	WEST	EAST	TOP/FLOF	FLOF	
PIN 11	LOH(0)	HIGH(1)	-	-	FOM(0) : GND
PIN 12	-	_	HIGH(1)	FOM(0)	HIGH(1): 5V

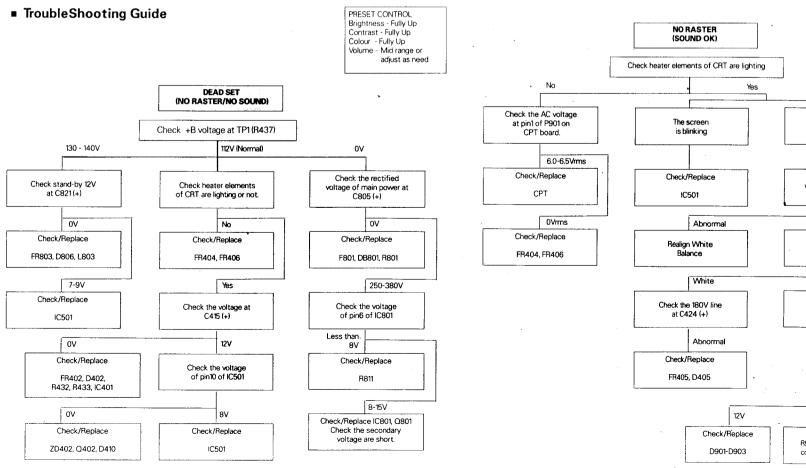
• KEY MATRIX TABLE

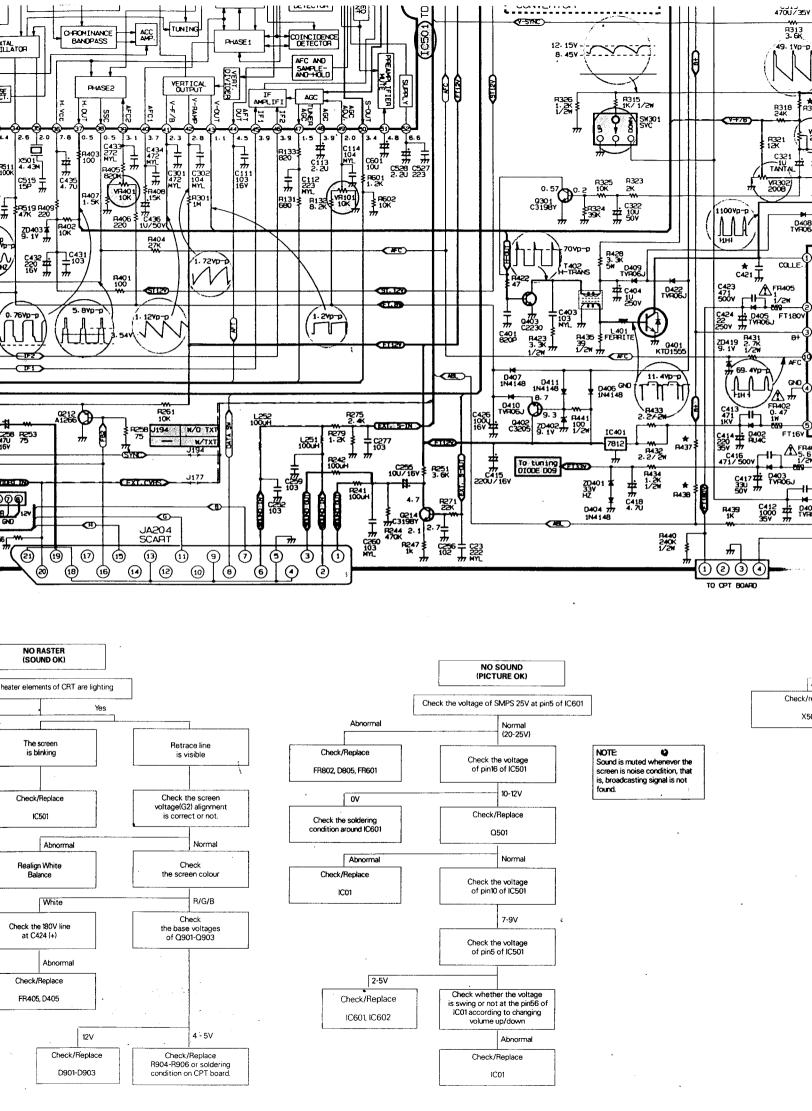


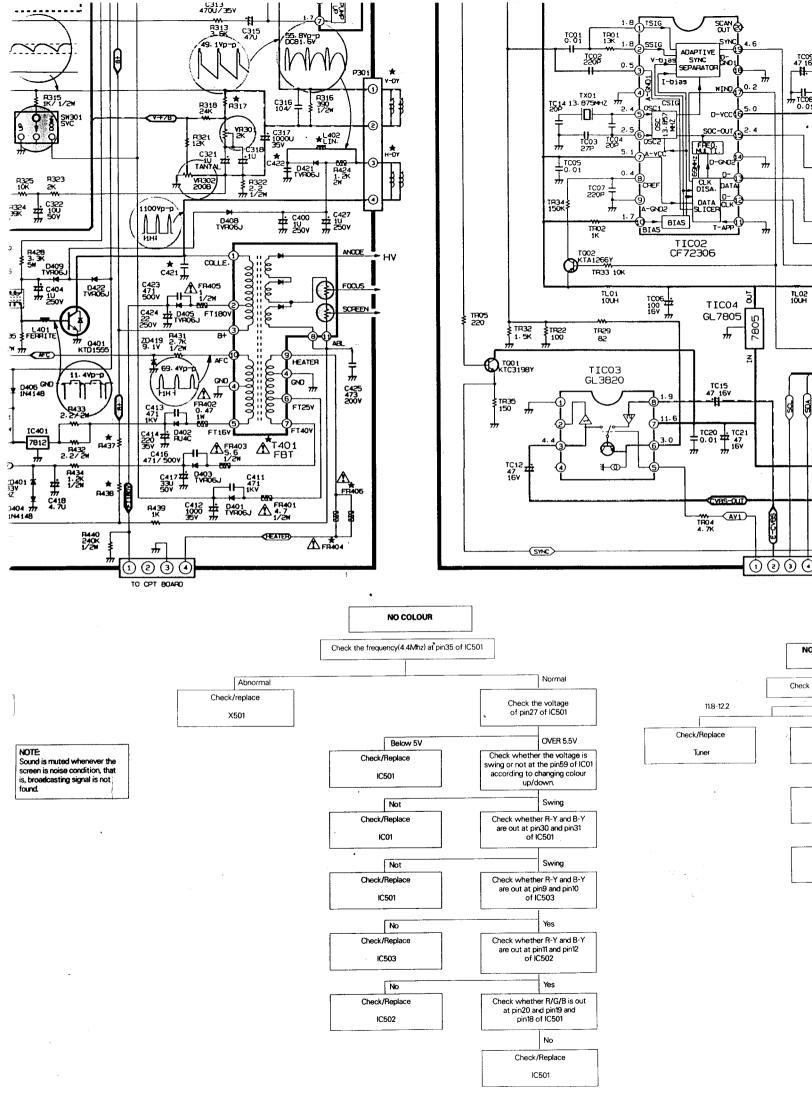
NOTICE

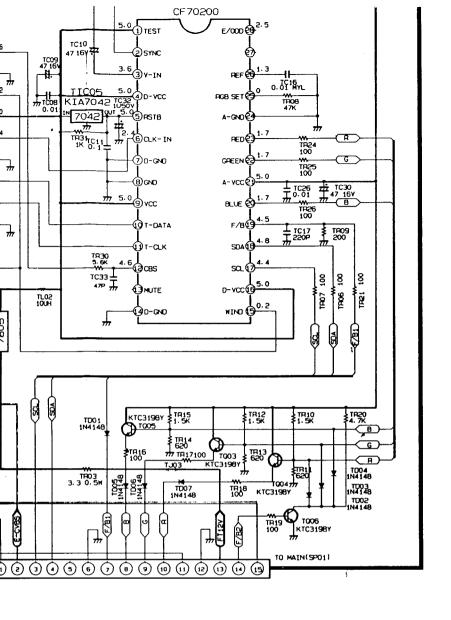
Since this is basic circuit diagram, the value of components and some partical connection are subject to change for improvement.

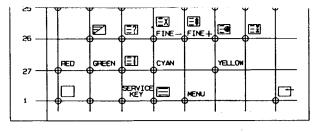












NOTICE

Since this is basic circuit diagram, the value of components and some partical connection are subject to change for improvement.

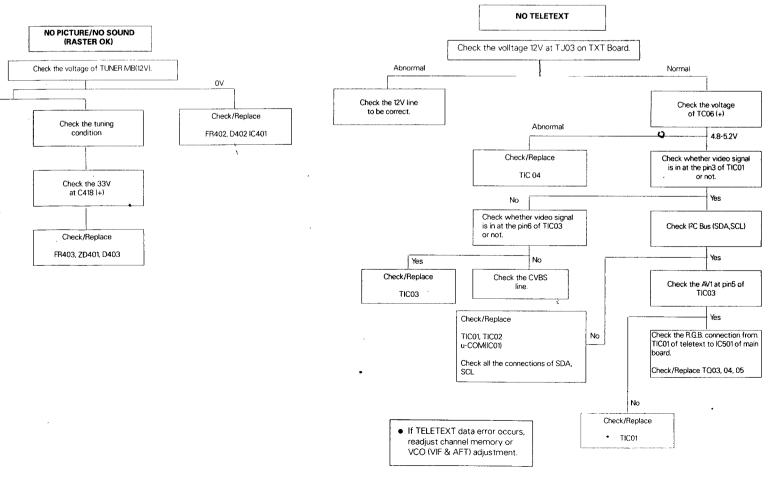
The components marked Δ conform to VDE or IEC guidelines and are essential for safe operation of the set. While those marked Δ are required for correct operation. Use specified parts only when replacing:

Value of resistor, capacitor and inductor

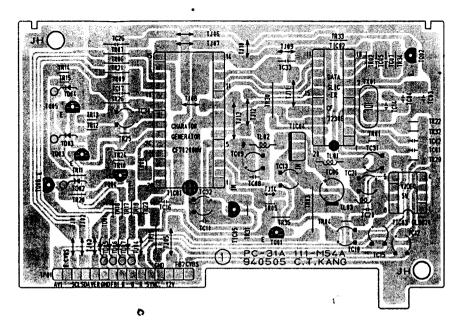
- 1. Resistances are shown in ohm, K=1,000, M=1,000,000.
- Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in mfd and the values more than 1 in pF.
- Unless otherwise notied in schematic, all inductor values more than 1 are expressed in uH and values less than 1 in Henry(H).

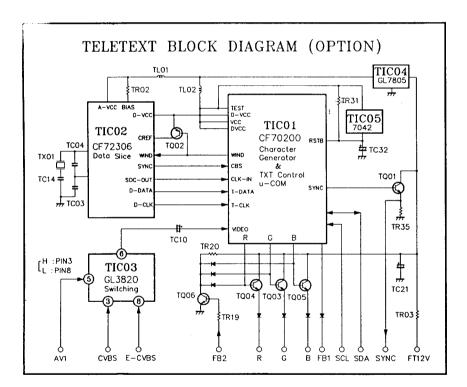
Observation of voltages and waveforms

- Voltages with VTVM from point to chassis ground, line voltage is 230Vac +/- 20% volts, (240Vac +/- 20% in ENGLAND, AUSTRALIA, NEWZEALAND) Signal pattern is colour-bar.
- 2. The schematic shown is representative only.
- 3. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
- Check Fine tuning, AGC, Brightness, Contrast and Colour controls for best picture, make sure that colour, brightness are in mid-position and contrast is in 75%.



TXT P.C.Board (Component Side)-OPTION





■ Alignment procedures

- 1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the ris electric shock and protect the instrument.
- 2. Never disconnect leads while the TV receiver is on.
- 3. Don't short any portion of circuits while power is on.
- 4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
- 5. Unless other-wise noted, set the line voltage to $230V \pm 2$ 50/60hz.

■ Test Equipment required

- 1. VIF sweep generator
- 2. Color bar/cross-hatch pattern generator
- 3. DC power supply (24V) X 2
- 4. Digital multi-meter
- 5. Oscilloscope

Regulated B+ adjustment



- 1) Turn the TV set to receive a broadcast signal.
- 2) Set color, bright, contrast to max. position.
- 3) Connect DC voltmeter to the TP 1(R437).

 4) Adjust VR801 for 112V +0.3 as to smaller model than 21 incl. 118V +0.3 as to 21 inch.

NOTE: This adjustment should be performed after warr up for 10 minutes.

VCO (Voltage Controlled Oscillator)

1. Connect the measuring equipment to the TV as shown Fig.

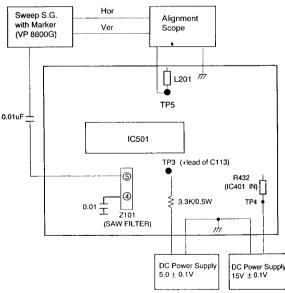


Fig. 1 Connection Diagram of equipment

Alignment/Test Point Location Guide

(mdo 8) 92

SOUND-AMP 3005A01

10901

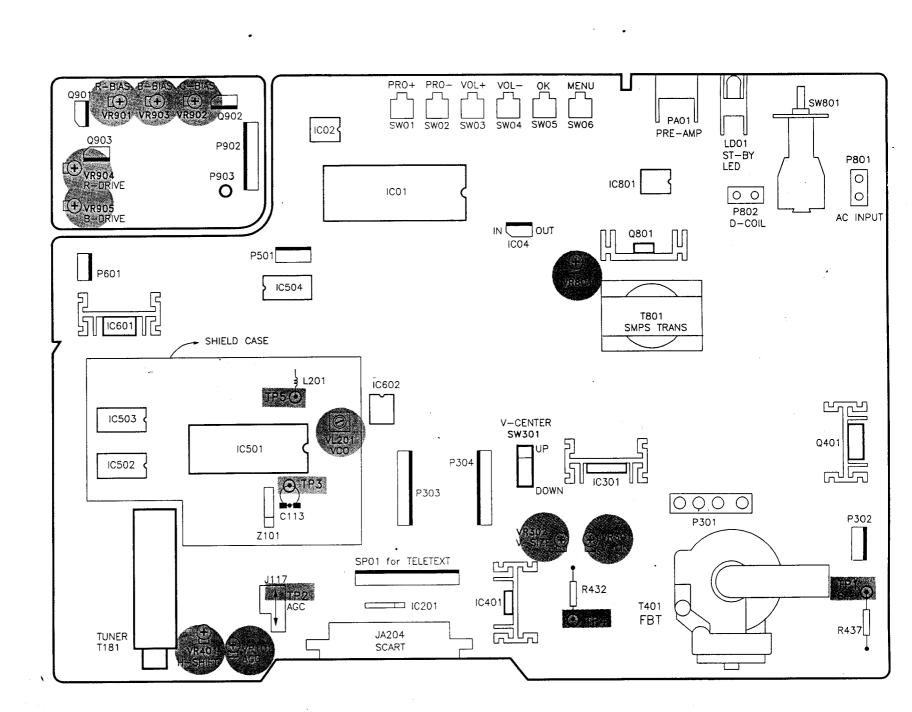
NI-010111

VOL. —

- .TX3

WS GNUOS 8618AGT

10901



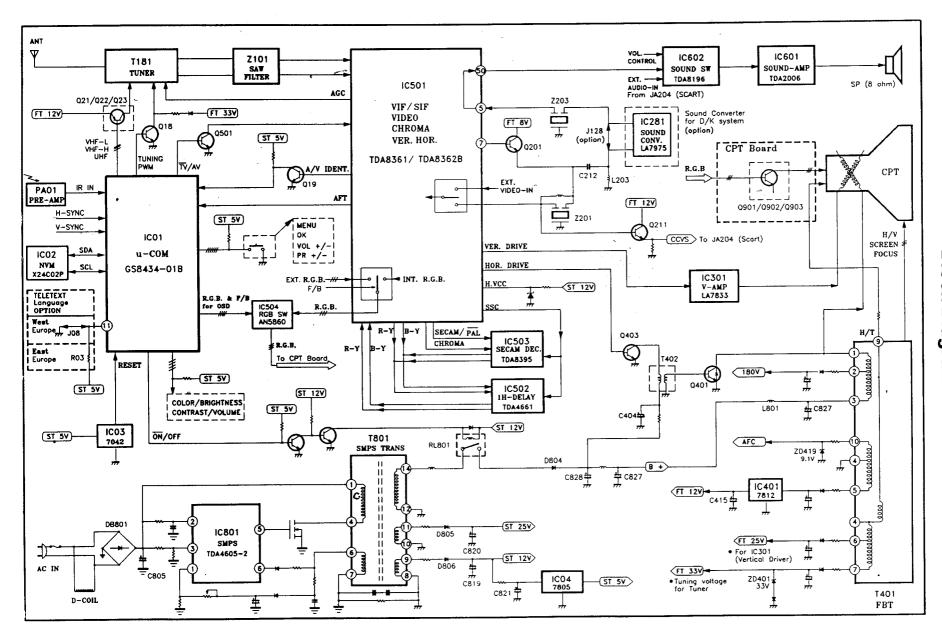
10201

MELTILI AVS 1012

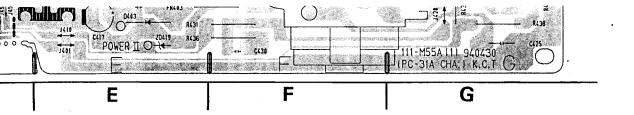
TUNER

1817

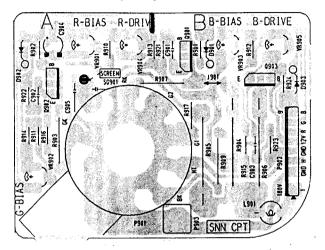
TMA T



Block Diagram



CPT Board (14")



PCB P/N	Adoption	Remarks		
111-N01A	14 inch, SNN CPT (for CKD MODEL)	Main parts Location are all the same.		
111-M92A	14 inch, SNN CPT (for complete set)	 There are two kinds of CPT Board, one for 		
111-N22A	20", 21" inch, HiFo CPT (for CKD MODEL)	SNN CPT(14"), the other for HiFo CPT		
111-M55A	20", 21" inch, HiFo CPT (for complete set)	(20", 21").		

Wiring Diagram

